RECORD

DICKINSON
"Law
DICKINSON,

F

63-3

Smart's
Office Supply

LOC 8-12 ✓ 8-13 ✓

12

SE Durn Co

SS

SS DIPS BENEATH S.V. which is EXPOSED higher up valley

S.V. SEEMS TO BE channeled INTO F.V. at this point

→ SE

SE 1/4, NW 1/4, Sec 1, T14N R9W
S. Dunn Co.

FT. UNION FM.

Mottled brown & yellow
& bluish weathered
[illegible] some ss.
CALCAREOUS [illegible]
[illegible]
TANNISH Brown SHALE.
Wheathered [illegible]
Clays with [illegible]
Lignite Chips,

1.5 1.1 - Grey fissle shale
1.1 - Grey [illegible] purple
[illegible] mod ST.
plant [illegible]
1.4 Grey bedded less fissle
silty shale with [illegible]
[illegible] bedding planes &
mod ST. plant remains.
[illegible] content increases
[illegible] with decreased
4.2 Very fissle grey shale
with much brown CARBONACEOUS
material on bed. pln.

4.8 Grey Vfg. SA, Mic (17o)
[illegible] somewhat brownish &
limonite STAINED.

V

Bottom 3" contains
brilliant y laminite
cemented sc. Coarse indist
Interval Below
with Bituminous
SS. appears oxidized
at top

6 2 Dark gray organic rich
SILTY CLAY
Laminated Structure
about 1/4" layer of
lignite interbedded
Laminae

INTERVAL Between
6 & 12 Obscured
by Box

12 Medium red Concretionary
Lodge - Comes from
Above - Not Laminated
Above - Not found below.
12.5 Clay - Laminations
13 Sandy Siltstone
14 Dark grey - Carbonaceous

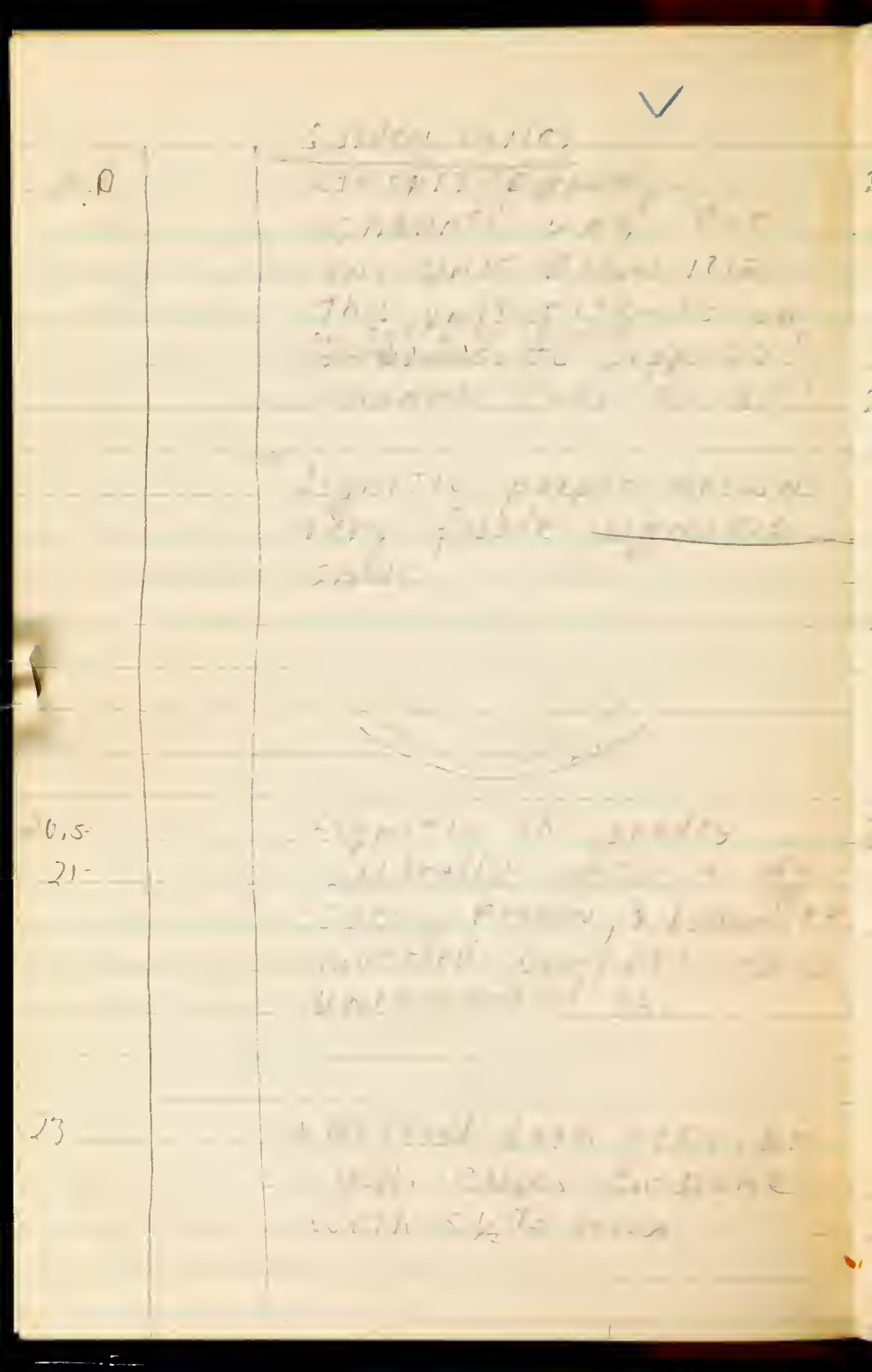
✓

19- very, ~~extremely~~ fine
~~grey, carbonaceous~~
Lignitic zone consisting
of alternating units of
Lignitic shale
Brownish grey
& Beds of BLACK LIGNITE

Shales at top of unit are
Ironstone & contain stringers
of bright yellow Iron mineral

18.2. mottled ~~light grey~~
Limonite brown SILTY CLAY.
~~Argillaceous~~
20- ~~Argillaceous~~ TAN Brown
Carbonate Cemented
Limonite STAINED
(Yellow Brown) Also FCL

22.- GREY & TAN MOTTLED
CLAYEY SS.
WITH COAL



V

2.

2a

28.2 Fine [illegible], clayey
light grey micaceous
< 1% light grey &
[illegible]
[illegible] lobules
[illegible]
[illegible]
31.5- very [illegible]
[illegible]

V

33

34

37, 5.

38

V

✓

+ [illegible] stained by
limonite.

64 - Limonite cemented on
[illegible] bedding planes.
[illegible]
[illegible]

66 - Lime, limonite
[illegible]
[illegible] limonite [illegible]
bedding [illegible]
[illegible]

70 - bedded [illegible]
grey limestone
[illegible] yell orange
increasing amt of
induration.

71 - Grey ledge of
yellow-ish grey [illegible]
[illegible]

~~73.5~~

73.5 Black [illegible], [illegible]-
clay. Bearing large
gyp. xls. in [illegible] no.

V

✓

951' Top of Specimen

Appx. to
See Cont'l

V

H

O

light grey, very clayey
silt stone Appears bedded
on wh slope

Develops limonite stain
upper portion of
places - very rare elsewhere
limonite nodule
slight truncation of
bedding at this contact
suggests a channel
or irregularity.
Dip of bed 27° NE.
Contact
of unit

S.

very li gray, very
rock
dip
bedding
Contact
9.9. Lower
of
V. V. light olive gray or

16. Ditto 13'

[illegible] pale [illegible] (7.5Y 7/4)
limonite oolites [illegible]
1 mm. found from
above channel CONTACT of
this UNIT to Top.
Become more Abundant
to Top abt 170 & 187.
Culminating in Aggregated
Concs. of oolites IN Top
2 feet of UNIT.

UNIT. darker Brown
19' Fm. become ~~grey~~
limonite STAINED
CHIPS Ditto 13'

CONTACT with [illegible]
[illegible] CONTACT.
[illegible]
of limonite Concs
with is somewhat irrey.

21.5 6 [illegible]
Grey SITY CLAY or
[illegible]
[illegible] spheres of limonite

✓

Gypsum

Grey

Dark

Grey silty shale

Black

✓

Shale weathering TAN,

LIMONITE TAN.

29. ~~SILTY~~ CLAYEY MICACEOUS UNCONSOLIDATED MICACEOUS (47%) SILTSTONE. SHOWS BEDDING ON WEATHERED SURFACE GYPSIFEROUS & SLIGHT CARBONATE CONTENT LIMONITE YELLOW

35. BROWN LIMONITE IMPREG. SILTSTONE AS IN 29-1

36. VFG, CALC. 3%

~~SILTY~~ CLAYEY & UNCONSOLIDATED SS WITH SOME CARBONATE STAINED BROWN BY LIMONITE ~~AND SECONDARILY DARK~~ SAME AS UNIT fro 29.

37.5. BROWN LIMONITE STAINED AS BELOW 29-37.

42- WELL CEMENTED CARBONATE RICH [illegible] (UNN.) TAN POR. FINE GR. S.A., CLAYEY MICACEOUS 2% SS LAMINATED.

✓

0-3		Covered.
3-5.8		Strongly [illegible]
		[illegible]
		[illegible]
		MICACEOUS - [illegible]
		[illegible]
		[illegible]
		[illegible]
		SILT
5.8-6.5		Brown [illegible]
		[illegible]
		SILT
		SAND - Good grade
		Black [illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
6.5-7.9		[illegible]
		[illegible]
		[illegible]
		[illegible]
		Brown
		[illegible]

which grades into
BATTleship grey shale
fissile in places some
poor plant frags.
[illegible] Band
of Limonite [illegible]
1/3'

[illegible]
[illegible]
[illegible]
[illegible]

.0.5 Bunch grey in
weathering whitish TAN
with some silt
Fair. 1/0.

Clayey silt
65. ~~Silty Shale~~ grey
PLANT REMAINS LEAVES
STEMS.
MICACEOUS.

67 Covered INTERVAL

70.5 Grey very fissle shale
with plant Rems.

✓

71.5 | | Brown fissile lignitic shale

71.9 [illegible]

Coals

72. [illegible]

73. [illegible]

74. [illegible]

75.1 [illegible]

7719 [illegible]

[illegible]

78 [illegible]

65. [illegible]

[illegible]

99.5

Grey Brown / L. grey
[illegible] CLAY with exp x/s

L.L. = Grey - L. grey wk.
[illegible]

110

Ledge of Mod. well
CARBONATE CEM.
MICACEOUS (1-2%) wtgss

Aug 16.

LOC 7-8-1

fossil leaves from
Hor. ~~below~~ in lower part. of
U. mbr. (?) just above purple.
see section 7-8-1

Aug 23

8-23-1

Same as loc 8-6-24-2

Sampling by W. Bennett

Center East bdy NW¼ sec 11, T 137 N
R 94 W E. Stark Co.

8-23-3 ✓

15.4 Control

21. Very l. grey sh. ; white
ss. with abt. [illegible]
[illegible] mica very sparse
Mod. Calc. Cs
24- [illegible] 20%
26.7- first of a number

8-23-2'

8-23-2 ✓

32.8- 1" layer of
clay soil
Limestone cement
sand gravel
Fine grained light
yellowish tan limestone
with Kaolinite (20%)

35.2- Soil & limestone
gravel
interbedded.

37- 35% with ½-½"

41.5 Limonite stained
very fine ss.
Limonite cemented
heavily laminated
(dip ~25°)

8-23-2 ✓

8-23-2. ✓

NW 1/4, Sec 14, T 138 N R 98W
N. Starks County.

0		Golden Valley Fm.

15

Gyp. x/s.

10. Grey to purplish grey clay appearing

21.4

CLAY

25.1

26.8 TAN WAXY
VERY THINLY LAMINATED
SILTY SHALE 2% CLAY
SOME LIMONITE STAINING

31.5

35- CHIPS OF A CREAMY
TAN SILICIFIED
HORNSTONE WEATHERING

Samp.
Y-23-3

36 -

Sec 8 26 1

1813.

DTJ10 3-

39-

40

41

66.6

Upper Mar

MAROON Brown
(Lavender) shale, no
PLANT [illegible]

67

TAN, BROWN
[illegible]

(1)

50' feet or more

3.5'

Dark [illegible]
[illegible]
[illegible]

Limonite

1.1

V. fgr. or bedded [illegible]
[illegible]
[illegible]
[illegible]

2.4

[illegible] Shale [illegible]
Clay Silty.
[illegible]

Upper [illegible]
[illegible]
[illegible]

1H.8

Dark [illegible] silty
Gypsiferous clay